

0000001



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center
122 S. Front Street
Columbus, Ohio 43215

TELE: (614) 644-3020 **FAX:** (614) 644-3184
www.epa.state.oh.us

MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43216-1049

August 12, 2005

EPA Region 5 Records Ctr.



242936

Mr. Jason El-Zein, Chief
Response Section One
U.S. EPA Region V
9311 Groh Road
Grosselle, Michigan 48138

Dear Mr. El-Zein:

Ohio EPA requests U.S. EPA's assistance for an emergency removal of hazardous waste and other regulated materials from the Pine View Plating (PVP) facility at 4529 New Cumberland Road NE, Mineral City, Tuscarawas County, Ohio. Pine View Plating was an industrial chrome plating facility. On July 17, 2005, a fire destroyed the facility. 44/56

Approximately 3000 gallons of waste water from fighting the fire and pickling liquid were generated. This hazardous waste was generated when fire officials pumped out a sump beneath one of the plating process tanks. The waste is currently stored in 2 totes. Another sump under a second process tank contains hazardous waste plating sludge. This sump is in bad condition as a result of the fire. A small pond adjacent to the facility and a make-shift sump between the facility and the pond also received waste water. Soil sampling efforts by Ohio EPA, has confirmed that soil adjacent to the burned building is contaminated with arsenic, barium, chromium, lead and selenium. Sampling of the ash that was generated demonstrates that the ash is characteristically hazardous for chromium. Sampling data is attached. The business was not insured and the owner is concerned that he may have to file for bankruptcy.

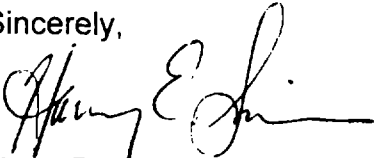
Further contamination to the surrounding land and pond is likely to occur due to rain events unless material on site is removed as soon as possible. I have attached a "Time Critical Removal Action Referral Package" which provides detailed information about the site and the hazards that exist.

Bob Taft, Governor
Bruce Johnson, Lieutenant Governor
Joseph P. Koncelik, Director

Mr. Jason El-Zein, Chief
Page 2

I hereby request that U.S. EPA conduct an action that includes the removal, as soon as possible, of all hazardous waste and other materials required to be removed from the facility under Ohio's Cessation of Regulated Operations regulations. If you have any questions, please call Isaac Wilder of my staff at (614) 644-3067.

Sincerely,

A handwritten signature in black ink, appearing to read "Harry E. Sarvis". The signature is fluid and cursive, with the first name "Harry" being more prominent.

Harry E. Sarvis, Manager
Compliance Assurance Section
Division of Hazardous Waste Management

Attachments

cc w/o attachments Melody Stewart\Jim Michnowicz, DHWM, SEDO

**OHIO EPA
TIME-CRITICAL REMOVAL ACTION
REFERRAL PACKAGE**

1. Site Location and Responsible Party Information

- A. Site Name: Pine View Plating
- B. Location: 4529 New Cumberland Road NE, Mineral City, Ohio 44656
- C. Owner(s)/Operator(s):
Ron Shaw 330 364-2308
- D. Brief description of steps taken to compel responsible party(ies) to conduct site remediation: On 7/17/05, a fire destroyed the Pine View Plating facility in Mineral City, Ohio. Approximately 3000 gallons of fire water and pickling liquid, currently stored in 2 totes, were generated. This hazardous waste was generated when fire officials pumped out a sump beneath one of the plating process tanks. Another sump under a second process tank contains hazardous waste plating sludge. A small pond adjacent to the facility and a make-shift sump between the facility and the pond also received fire water. Soil contaminated with arsenic, barium, chromium, lead and selenium has been confirmed by soil sampling efforts by Ohio EPA. Further contamination to the surrounding land and pond is likely to occur due to rain events. Sampling of the ash that was generated demonstrates that the ash is characteristically hazardous for chromium. The business was not insured and the owner is concerned that he may have to file for bankruptcy.

2. Site Description and Background Information

- A. Description of past or present operations and how wastes were generated:
When the facility was in operation, Pine View Plating was an industrial chrome plater. The facility repaired and replated mostly hydraulic parts such as telescopic cylinders. The hydraulic parts were first cleaned/stripped using hydrochloric acid, rinsed, machined for the correct size and then chrome plated. Metal grindings were generated as well as sludge from the plating operation.
- B. Site Characteristics
Site layout (size, number of buildings, topography, etc.): All facility operations were located in a 50 x20 foot pole barn.
Quantity and type of wastes and/or hazardous substances: Fire water/plating fluids collected in two 1,500 gallon totes, ash in the building, sludge (approximately 18 inches) stored in the sump beneath the plating tank, one 55-gallon container of plating sludge and the contaminated soil remain at the facility..

Analytical data or other documentation on chemical characterization of wastes present (attach analytical): See attached analytical data.

Condition of containers: The totes are closed and in good condition. The 55 gallon container of plating sludge is in poor condition due to the fire. The plating sludge beneath the plating tank, ash and contaminated soil are not containerized. Rain events will likely spread the ash and increase soil contamination, possibly reaching the pond.

Proximity of population and population density: The facility is located directly behind the owners residence and approximately 100 feet off the road. This area is a farming community and is not densely populated.

3. Threats to Public Health and the Environment

- A. Description of potential exposure to humans, animals or the food chain from hazardous substances or contaminants: The pond is within 50 feet of the facility. Site access is not restricted in anyway.
- B. Actual or potential for release present: Soil contamination has been confirmed by sampling results.
- C. Threat of fire or explosion: None.

4. Assessment of Environmental Hazards and Proposed Response Actions

- A. Description of hazards (real or potential) posed by site and what actions should be undertaken to reduce or eliminate hazard: Further contamination to the soil and the pond is likely to occur with rain events. Ash should be containerized and the areas where soil contamination has been confirmed should be remediated. The fire water/plating solution and the 55 gallon container of plating sludge should be shipped off-site for proper disposal as soon as possible. The plating sludge in the sump beneath the plating tank should be containered and manifested off-site.

5. Chronology of Events

1. July 17, 2005 - Fire at the Pine View Plating Facility.
2. July 18, 2005 - Ohio EPA conducts site visit.
3. July 21, 2005 - Ohio EPA conducts sampling activities
4. August 1, 2005 - Ohio EPA receives sampling results.

6. Index of Documents

1. July 18, 2005 Photographs from Site Visit
2. July 21, 2005 - Photographs taken during Ohio EPA sampling event
3. Sampling Results
4. _____
5. _____

7. Extenuating or Mitigating Circumstances

The business was not insured and the facility owner is concerned that he may have to file for bankruptcy.

8. Contacts

District Office: Melody Stewart - DHWM/SEDO

Central Office: _____

9. Signatures

Signed: _____ Date: _____

Approved: _____ Date: _____

OHIO EPA
TIME-CRITICAL REMOVAL ACTION
REFERRAL PACKAGE

1. Site Location and Responsible Party Information

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- B. Location: 4529 New Cumberland Road NE, Mineral City, Ohio 44656
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Analytical data or other documentation on chemical characterization of wastes present (attach analytical): See attached analytical data.

Condition of containers: The totes are closed and in good condition. The 55 gallon container of plating sludge is in poor condition due to the fire. The plating sludge beneath the plating tank, ash and contaminated soil are not containerized. Rain events will likely spread the ash and increase soil contamination, possibly reaching the pond.

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- A. Description of potential exposure to humans, animals or the food chain from hazardous substances or contaminants: The pond is within 50 feet of the facility. Site access is not restricted in anyway.
- B. Actual or potential for release present: Soil contamination has been confirmed by sampling results.
- C. Threat of fire or explosion: None.

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3. Sampling Results
4. _____
5. _____

7. Extenuating or Mitigating Circumstances

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8. Contacts

District Office: Melody Stewart - DHWM/SEDO

Central Office: _____

9. Signatures

Signed: _____ Date: _____

Approved: _____ Date: _____

Page: 2 of 2
 Project #: GSE072105-HW
 GEL Quote #: _____
 COC Number ⁽¹⁾: _____
 PO Number: _____

GEL Laboratories of Ohio, LLC

Chain of Custody and Analytical Request

GEL Laboratories of Ohio, LLC
 6954 Cornell Road, Suite 300
 Cincinnati, OH 45242
 Phone: (513) 489-2001
 Fax: (513) 489-2223

Client Name: <u>Ohio EPA-SEDO</u>		Phone: <u>(740) 380-5288</u>		Sample Analysis Requested ⁽⁶⁾ (Fill in the number of containers for each test)															
Project/Site Name: <u>Pine View Plating</u>		Fax: <u>(740) 385-6490</u>		Should this sample be considered:	Total number of containers	TCLP Metals	Total Metals											← Preservative Type (6)	
Address: <u>Route 1 Box 270 Mineral City, OH 44656</u>																			
Collected by: <u>Scott Bergreen</u>		Send Results To: <u>Scott Bergreen</u>		Radiative	TSCA Registered	Total number of containers	TCLP Metals	Total Metals											Comments Note: extra sample is required for sample specific QC
Sample ID	Date Collected (mm-dd-yy)	Time Collected (Military) (hh:mm)	QC Code (2)						Field Filtered (3)	Sample Matrix (4)									
PVP Tote 1	7-21-05	12:55	G		NW		X												<p>* Samples were not preserved with Acid. please preserve.</p> <p>* Please expedite TAT as discussed with Angie on 7/29/06.</p>
PVP Tote 2	7-21-05	13:05	G		WW		X												
PVP Pond	7-21-05	13:15	G		SW			X											
PVP Outside Sump	7-21-05	13:20	G		WW		X												
PVP Soil 1A	7-21-05	13:34	G		SO		X												
PVP Soil 1B	7-21-05	13:40	G		SO			X											
PVP Soil 2A	7-21-05	13:43	G		SO		X												
PVP Soil 2B	7-21-05	13:46	G		SO			X											
PVP Soil Bkg.	7-21-05	13:58	G		SO			X											
PVP Ash 1	7-21-05	14:16	C		SS		X												

TAT Requested: Normal: ☒ Rush: ☒ Specify: _____ (Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards PVP Tote 1 and PVP Tote 2 may have high chromium content.

Chain of Custody Signatures					Sample Delivery Details / Laboratory Receipt	
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	GEL PM:
<u>Scott Bergreen</u>	<u>7/22/05</u>	<u>09:15</u>	<u>Steve Am...</u>	<u>7/22/05</u>	<u>14:15</u>	Method of Shipment:
						Date Shipped:
						Airbill #:
						Airbill #:

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6) Preservative Type: HIA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexano, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact?

YES NO

Cooler Temp:

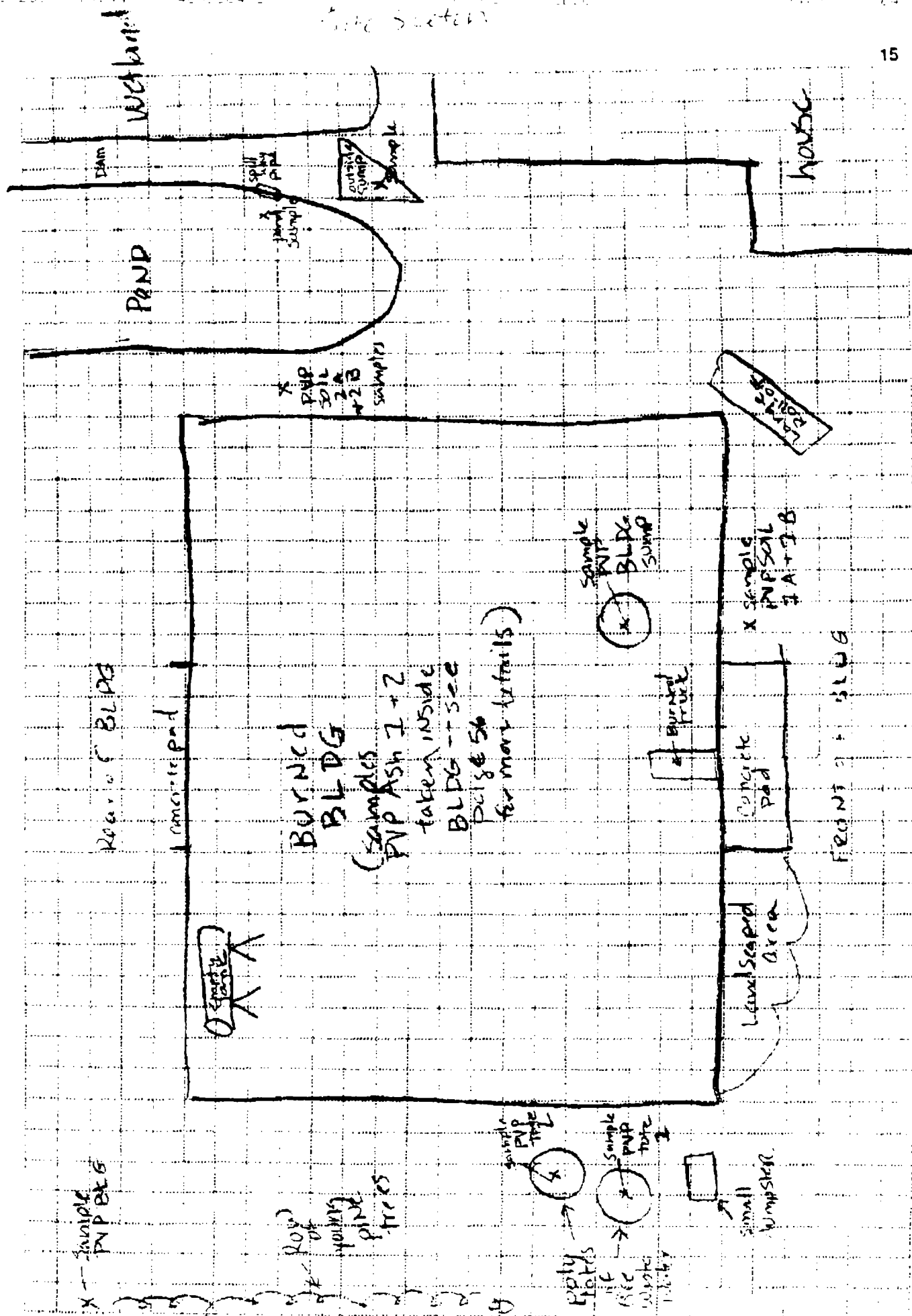
C

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT

Page: 2 of 2		GEL Laboratories of Ohio, LLC 6954 Cornell Road, Suite 300 Cincinnati, OH 45242 Phone: (513) 489-2001 Fax: (513) 489-2223														
Project #: GSE 072105-HW		Chain of Custody and Analytical Request														
GEL Quote #:																
COC Number (1):																
PO Number:																
Client Name: Ohio EPA-SEDO		Phone: (740) 380-5288		Sample Analysis Requested (5) (Fill in the number of containers for each test)												
Project/Site Name: Pine View Plating		Fax: (740) 385-6490		Should this sample be considered:												
Address: Route 1 Box 270 Mineral City, OH 44656																
Collected by: Scott Bergreen		Send Results To: Scott Bergreen														
Sample ID		Date Collected (mm-dd-yy)	Time Collected (Military) (hh:mm)	QC Code (3)	Field Filtered (6)	Sample Matrix (6)	Radioactive	TSCA Regulated	Total number of containers	TCLP Metals	Total Metals	Preservative Type (6)				Comments Note: extra sample is required for sample specific QC
PVP Ash 2	7-21-05	14:23	C		SS				1	X						
PVP Building Sump	7-21-05	14:35	G		WW				1	X						
* Please expedite TAT as discussed with Argye on 7/20/05.																
TAT Requested: Normal: Rush: Specify: (Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4																
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards PVP Building Sump may have high chromium content.																
Chain of Custody Signatures										Sample Delivery Details / Laboratory Receipt						
Relinquished By (Signed)			Date	Time	Received by (signed)			Date	Time	GEL PM:						
Scott Bergreen			7/22/05	09:15	Steven Ann			7/22/05	14:15	Method of Shipment:			Date Shipped:			
2					2					Airbill #:						
3					3					Airbill #:						
1.) Chain of Custody Number = Client Determined																
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MB = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite																
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For Lab Receiving Use Only																
Custody Seal Intact?																
YES NO																
Cooler Temp:																
C																



GEL LABORATORIES OF OHIO, LLC
6954 Cornell Road Suite 300 Cincinnati OH 45242 - (513) 489-2001

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHW) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Tote 1
Sample ID: 141444001
Matrix: Waste Water
Collect Date: 21-JUL-05 12:55
Receive Date: 22-JUL-05
Collector: Client
Project: OHEPA GSE072105-HW
Client ID: OHEPA002
Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>TCLP Metals by 6010 Liquids</i>											
Barium		1.74	0.100	1.00	mg/L	100	KT	07/27/05	1812	446473	1
Lead	U	ND	5.80	10.0	mg/L	100					
Selenium	U	ND	4.00	8.00	mg/L	100					
Silver	J	1.60	0.600	2.50	mg/L	100					
Arsenic	U	ND	27.0	100	mg/L	1000	KT	07/27/05	1748	446473	2
Cadmium	U	ND	4.00	10.0	mg/L	1000					
Chromium		92300	16.0	50.0	mg/L	2000	KT	07/28/05	1001	446473	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 1311	SW846 1311 Metals TCLP Leaching Liquid	ASD	07/26/05	1110	446181
SW846 3010A	Metals Leachate Digestion SW846 3010A	ASD	07/26/05	1600	446472

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 6010B	
2	SW846 6010B	
3	SW846 6010B	

Notes:

The Qualifiers in this report are defined as follows :

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J The result was greater than the MDL, but less than the RL and is an estimated value. Values below a CRDL are also flagged.
- U Indicates the target analyte was analyzed for but not detected above the MDL.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your Project Manager for details.
- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

000012

GEL LABORATORIES OF OHIO, LLC
6954 Cornell Road Suite 300 Cincinnati OH 45242 - (513) 489-2001

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHWM) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Tote 2
Sample ID: 141444002
Matrix: Waste Water
Collect Date: 21-JUL-05 13:05
Receive Date: 22-JUL-05
Collector: Client

Project: OHEPA GSE072105-HW
Client ID: OHEPA002

Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>TCLP Metals by 6010 Liquids</i>											
Barium		2.26	0.100	1.00	mg/L	100	KT	07/27/05	1819	446473	1
Lead	U	ND	5.80	10.0	mg/L	100					
Selenium	U	ND	4.00	8.00	mg/L	100					
Silver	J	1.54	0.600	2.50	mg/L	100					
Arsenic	U	ND	27.0	100	mg/L	1000	KT	07/27/05	1752	446473	2
Cadmium	U	ND	4.00	10.0	mg/L	1000					
Chromium		82100	8.00	25.0	mg/L	1000					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 1311	SW846 1311 Metals TCLP Leaching Liquid	ASD	07/26/05	1110	446181
SW846 3010A	Metals Leachate Digestion SW846 3010A	ASD	07/26/05	1600	446472

The following Analytical Methods were performed

Method	Description	Analyst Comments
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2	SW846 6010B	

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- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

000014

GEL LABORATORIES OF OHIO, LLC
6954 Cornell Road Suite 300 Cincinnati OH 45242 - (513) 489-2001

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHWM) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Outside Sump
Sample ID: 141444003
Matrix: Waste Water
Collect Date: 21-JUL-05 13:20
Receive Date: 22-JUL-05
Collector: Client
Project: OHEPA GSE072105-HW
Client ID: OHEPA002
Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>TCLP Metals by 6010 Liquids</i>											
Arsenic	U	ND	0.027	0.100	mg/L	1	KT	07/27/05	1733	446473	1
Barium		0.0516	0.001	0.010	mg/L	1					
Cadmium	U	ND	0.004	0.010	mg/L	1					
Chromium		2.13	0.008	0.025	mg/L	1					
Lead	U	ND	0.058	0.100	mg/L	1					
Selenium	U	ND	0.040	0.080	mg/L	1					
Silver	U	ND	0.006	0.025	mg/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 1311	SW846 1311 Metals TCLP Leaching Liquid	ASD	07/26/05	1110	446181
SW846 3010A	Metals Leachate Digestion SW846 3010A	ASD	07/26/05	1600	446472

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000016

GEL LABORATORIES OF OHIO, LLC
6954 Cornell Road Suite 300 Cincinnati OH 45242 - (513) 489-2001

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHWM) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Building Sump
Sample ID: 141444004
Matrix: Waste Water
Collect Date: 21-JUL-05 14:35
Receive Date: 22-JUL-05
Collector: Client

Project: OHEPA GSE072105-HW
Client ID: OHEPA002

Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>TCLP Metals by 6010 Liquids</i>											
Arsenic		0.228	0.027	0.100	mg/L	1	KT	07/27/05	1804	446473	1
Barium		0.417	0.001	0.010	mg/L	1					
Cadmium		0.0365	0.004	0.010	mg/L	1					
Lead		0.813	0.058	0.100	mg/L	1					
Silver	U	ND	0.006	0.025	mg/L	1					
Chromium		813	0.080	0.250	mg/L	10	KT	07/27/05	1745	446473	2
Selenium	U	ND	0.400	0.800	mg/L	10					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 1311	SW846 1311 Metals TCLP Leaching Liquid	ASD	07/26/05	1110	446181
SW846 3010A	Metals Leachate Digestion SW846 3010A	ASD	07/26/05	1600	446472

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 6010B	
2	SW846 6010B	

Notes:

The Qualifiers in this report are defined as follows :

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J The result was greater than the MDL, but less than the RL and is an estimated value. Values below a CRDL are also flagged.
- U Indicates the target analyte was analyzed for but not detected above the MDL.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your Project Manager for details.
- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

000018

GEL LABORATORIES OF OHIO, LLC
6954 Cornell Road Suite 300 Cincinnati OH 45242 - (513) 489-2001

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHWM) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Pond
Sample ID: 141444005
Matrix: Surface Water
Collect Date: 21-JUL-05 13:15
Receive Date: 22-JUL-05
Collector: Client

Project: OHEPA GSE072105-HW
Client ID: OHEPA002

Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>3010A/6010 ICP Scan Metals Liquids</i>											
Arsenic	U	ND	27.0	100	ug/L	1	KT	07/27/05	1339	445973	1
Barium		23.5	1.00	10.0	ug/L	1					
Cadmium	U	ND	4.00	10.0	ug/L	1					
Chromium		478	8.00	25.0	ug/L	1					
Lead	U	ND	58.0	100	ug/L	1					
Selenium	U	ND	40.0	80.0	ug/L	1					
Silver	U	ND	6.00	25.0	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3010A	ICP SW846 3010A Prep Liquids	ASD	07/25/05	1605	445972

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 6010B	

Notes:

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- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J The result was greater than the MDL, but less than the RL and is an estimated value. Values below a CRDL are also flagged.
- U Indicates the target analyte was analyzed for but not detected above the MDL.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your Project Manager for details.
- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

000020

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHWM) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Soil 1A
Sample ID: 141444006
Matrix: Misc Solid
Collect Date: 21-JUL-05 13:34
Receive Date: 22-JUL-05
Collector: Client

Project: OHEPA GSE072105-HW
Client ID: OHEPA002

Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>TCLP Metals by 6010 Solids</i>											
Arsenic	U	ND	0.027	0.100	mg/L	1	KT	07/27/05	1658	446473	1
Barium		0.535	0.001	0.010	mg/L	1					
Cadmium		0.0108	0.004	0.010	mg/L	1					
Chromium	J	0.0136	0.008	0.025	mg/L	1					
Lead	U	ND	0.058	0.100	mg/L	1					
Selenium	U	ND	0.040	0.080	mg/L	1					
Silver	U	ND	0.006	0.025	mg/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 1311	SW846 1311 Metals TCLP Leaching Solids	ASD	07/25/05	1725	446180
SW846 3010A	Metals Leachate Digestion SW846 3010A	ASD	07/26/05	1600	446472

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 6010B	

Notes:

The Qualifiers in this report are defined as follows :

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- B Target analyte was detected in the sample as well as the associated blank.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J The result was greater than the MDL, but less than the RL and is an estimated value. Values below a CRDL are also flagged.
- U Indicates the target analyte was analyzed for but not detected above the MDL.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your Project Manager for details.
- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

000022

GEL LABORATORIES OF OHIO, LLC
6954 Cornell Road Suite 300 Cincinnati OH 45242 - (513) 489-2001

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHWM) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Soil 2A
Sample ID: 141444007
Matrix: Misc Solid
Collect Date: 21-JUL-05 13:43
Receive Date: 22-JUL-05
Collector: Client

Project: OHEPA GSE072105-HW
Client ID: OHEPA002

Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>TCLP Metals by 6010 Solids</i>											
Arsenic	U	ND	0.027	0.100	mg/L	I	KT	07/27/05	1722	446473	I
Barium		0.377	0.001	0.010	mg/L	I					
Cadmium	U	ND	0.004	0.010	mg/L	I					
Chromium		0.0474	0.008	0.025	mg/L	I					
Lead	U	ND	0.058	0.100	mg/L	I					
Selenium	U	ND	0.040	0.080	mg/L	I					
Silver	U	ND	0.006	0.025	mg/L	I					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 1311	SW846 1311 Metals TCLP Leaching Solids	ASD	07/25/05	1725	446180
SW846 3010A	Metals Leachate Digestion SW846 3010A	ASD	07/26/05	1600	446472

The following Analytical Methods were performed

Method	Description	Analyst Comments
I	SW846 6010B	

Notes:

The Qualifiers in this report are defined as follows :

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
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- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J The result was greater than the MDL, but less than the RL and is an estimated value. Values below a CRDL are also flagged.
- U Indicates the target analyte was analyzed for but not detected above the MDL.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your Project Manager for details.
- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

000024

GEL LABORATORIES OF OHIO, LLC
6954 Cornell Road Suite 300 Cincinnati OH 45242 - (513) 489-2001

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHWM) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Ash 1
Sample ID: 141444008
Matrix: Misc Solid
Collect Date: 21-JUL-05 14:16
Receive Date: 22-JUL-05
Collector: Client
Project: OHEPA GSE072105-HW
Client ID: OHEPA002
Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>TCLP Metals by 6010 Solids</i>											
Arsenic	U	ND	0.027	0.100	mg/L	1	KT	07/27/05	1725	446473	1
Barium		0.207	0.001	0.010	mg/L	1					
Cadmium	U	ND	0.004	0.010	mg/L	1					
Chromium		20.2	0.008	0.025	mg/L	1					
Lead	U	ND	0.058	0.100	mg/L	1					
Selenium	J	0.0507	0.040	0.080	mg/L	1					
Silver	U	ND	0.006	0.025	mg/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 1311	SW846 1311 Metals TCLP Leaching Solids	ASD	07/25/05	1725	446180
SW846 3010A	Metals Leachate Digestion SW846 3010A	ASD	07/26/05	1600	446472

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 6010B	

Notes:

The Qualifiers in this report are defined as follows :

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- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J The result was greater than the MDL, but less than the RL and is an estimated value. Values below a CRDL are also flagged.
- U Indicates the target analyte was analyzed for but not detected above the MDL.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your Project Manager for details.
- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

000026

GEL LABORATORIES OF OHIO, LLC
6954 Cornell Road Suite 300 Cincinnati OH 45242 - (513) 489-2001

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHW) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pipe View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Ash 2
Sample ID: 141444009
Matrix: Misc Solid
Collect Date: 21-JUL-05 14:23
Receive Date: 22-JUL-05
Collector: Client

Project: OHEPA GSE072105-HW
Client ID: OHEPA002

Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>TCLP Metals by 6010 Solids</i>											
Arsenic	U	ND	0.027	0.100	mg/L	1	KT	07/27/05	1729	446473	1
Barium		0.758	0.001	0.010	mg/L	1					
Cadmium	U	ND	0.004	0.010	mg/L	1					
Chromium	U	ND	0.008	0.025	mg/L	1					
Lead		0.242	0.058	0.100	mg/L	1					
Selenium	U	ND	0.040	0.080	mg/L	1					
Silver	U	ND	0.006	0.025	mg/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 1311	SW846 1311 Metals TCLP Leaching Solids	ASD	07/25/05	1725	446180
SW846 3010A	Metals Leachate Digestion SW846 3010A	ASD	07/26/05	1600	446472

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 6010B	

Notes:

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- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J The result was greater than the MDL, but less than the RL and is an estimated value. Values below a CRDL are also flagged.
- U Indicates the target analyte was analyzed for but not detected above the MDL.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your Project Manager for details.
- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

000028

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHWM) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Soil 1B
Sample ID: 141444010
Matrix: Solid
Collect Date: 21-JUL-05 13:40
Receive Date: 22-JUL-05
Collector: Client
Moisture: 31.6%

Project: OHEPA GSE072105-HW
Client ID: OHEPA002

Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>6010/3050 ICP SCAN Metals Soil</i>											
Arsenic		20200	3690	12700	ug/kg	I	KT	07/27/05	1249	446178	1
Barium		126000	127	1910	ug/kg	I					
Cadmium		2390	763	1270	ug/kg	I					
Chromium		2770000	1270	5090	ug/kg	I					
Lead		169000	6360	12700	ug/kg	I					
Selenium		17100	2800	12700	ug/kg	I					
Silver	U	ND	763	3180	ug/kg	I					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050BS Prep Solids	ASD	07/26/05	0915	446177

The following Analytical Methods were performed

Method	Description	Analyst Comments
I	SW846 6010B	

Notes:

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- H Analytical holding time exceeded.
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- U Indicates the target analyte was analyzed for but not detected above the MDL.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your Project Manager for details.
- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

000030

GEL LABORATORIES OF OHIO, LLC
6954 Cornell Road Suite 300 Cincinnati OH 45242 - (513) 489-2001

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHWM) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Soil 2B
Sample ID: 141444011
Matrix: Solid
Collect Date: 21-JUL-05 13:46
Receive Date: 22-JUL-05
Collector: Client
Moisture: 19%

Project: OHEPA GSE072105-HW
Client ID: OHEPA002

Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>6010/3050 ICP SCAN Metals Soil</i>											
Arsenic		13200	2610	9020	ug/kg	1	KT	07/27/05	1304	446178	1
Barium		76100	90.2	1350	ug/kg	1					
Cadmium	U	ND	541	902	ug/kg	1					
Chromium		226000	902	3610	ug/kg	1					
Lead		18700	4510	9020	ug/kg	1					
Selenium		12600	1980	9020	ug/kg	1					
Silver	U	ND	541	2250	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050BS Prep Solids	ASD	07/26/05	0915	446177

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 6010B	

Notes:

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- H Analytical holding time exceeded.
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- U Indicates the target analyte was analyzed for but not detected above the MDL.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your Project Manager for details.
- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

000032

GEL LABORATORIES OF OHIO, LLC
6954 Cornell Road Suite 300 Cincinnati OH 45242 - (513) 489-2001

Certificate of Analysis

Company : Ohio Environmental Protection
Agency (DHWM) - SEDO
Address : Ohio EPA, SEDO
2195 Front Street
Logan, Ohio 43138
Contact: Scott Bergreen
Project: Pine View Plating

Report Date: July 28, 2005

Page 1 of 2

Client Sample ID: PVP Soil BKG.
Sample ID: 141444012
Matrix: Solid
Collect Date: 21-JUL-05 13:58
Receive Date: 22-JUL-05
Collector: Client
Moisture: 8.54%

Project: OHEPA GSE072105-HW
Client ID: OHEPA002

Client Desc.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
ICP Analysis											
<i>6010/3050 ICP SCAN Metals Soil</i>											
Arsenic		17300	2880	9920	ug/kg	1	KT	07/27/05	1308	446178	1
Barium		114000	99.2	1490	ug/kg	1					
Cadmium	J	743	595	992	ug/kg	1					
Chromium		15400	992	3970	ug/kg	1					
Lead		23900	4960	9920	ug/kg	1					
Selenium		14000	2180	9920	ug/kg	1					
Silver	U	ND	595	2480	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050BS Prep Solids	ASD	07/26/05	0915	446177

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 6010B	

Notes:

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- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J The result was greater than the MDL, but less than the RL and is an estimated value. Values below a CRDL are also flagged.
- U Indicates the target analyte was analyzed for but not detected above the MDL.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your Project Manager for details.
- d the 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

000034